

pgLO Transformation Lab

Please use the pgLO student lab manual as a template for your lab assignments.

Study that paper. All the tough bits are highlighted (information for the Cleveland Transformation Lab, this will be using that stuff again). However, that Cleveland Lab highlighted information is a very special section help with learning about Cleveland Transformations. This is why it is included as the first part of your student lab manual.

Part 1 - Cleveland Transformation Lab - Background Information (p. 1-1 - 1-4)

A. Transformation and the Molecular Biology of the Cell (p. 1-1 - 1-4)

1. What is Transformation?
The process by which a cell takes up and incorporates DNA from its environment. This is a natural process that occurs in many bacteria and some eukaryotes. It is a key mechanism for genetic exchange and evolution.
2. The role of the cell wall in transformation. (This is a key concept in the experiment that is being done.)
The cell wall is a rigid structure that surrounds the cell. It is made of peptidoglycan in bacteria and cellulose in plants. It provides structural support and protection. In bacteria, the cell wall is a major barrier to the entry of large molecules like DNA. However, some bacteria have evolved mechanisms to take up DNA from their environment. This is called transformation.
3. What are the steps of transformation?
Transformation is a multi-step process. It begins with the attachment of DNA to the cell surface. This is followed by the entry of DNA into the cell. The DNA then undergoes recombination with the host genome. Finally, the transformed cell is able to express the new genetic information.

B. Natural Transformation - an Example of Natural (Efficient) Transfer of Genetic Material

1. Describe the mechanism of natural transformation. (This is a key concept in the experiment that is being done.)
Natural transformation is a process by which a cell takes up and incorporates DNA from its environment. This is a natural process that occurs in many bacteria and some eukaryotes. It is a key mechanism for genetic exchange and evolution. The process involves the attachment of DNA to the cell surface, the entry of DNA into the cell, and the recombination of the DNA with the host genome.
2. What are the steps of natural transformation?
Natural transformation is a multi-step process. It begins with the attachment of DNA to the cell surface. This is followed by the entry of DNA into the cell. The DNA then undergoes recombination with the host genome. Finally, the transformed cell is able to express the new genetic information.

Biology Lab Student Manual Pglo Transformation

Samantha H. Dean



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